



Sunday 7 December

5.30-7.30pm	Welcome Reception - OGGB Level 0 Foyer
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Monday 8 December

8.00am	Registration		
8.45am	Opening & Plenary Session - Welcome Room 260-098		
9.15am	ANZOS PLENARY, chaired by Prof. David G. Lancaster ANZOS President Interferometric gravitational wave detection – a (quantum-) metrological challenge Michèle Heurs, Hannover University, Germany		Plenary 1
10.00am	Morning tea		
	Quantum computing and quantum information OGGB 3 - Chair: Erik Streed, Griffith University	MoA	Biophotonics and biomedical optics OGGB 4 - Chair: Jami Shepherd, University of Auckland
10.30am	INVITED Quantum sequence models: Possibilities, prospects, and potentials in photonics Mile Gu	MoA1	INVITED Label-free and quantum imaging Irina Kabakova
11.00am	A study on novel phase-shifted EPR-Bell states J. J. Joshua Davis, Carey Jackman, Rainer Leonhardt, Paul J. Werbos, Maarten Hoogerland	MoA2	3D-printed immersion micro-optics enable ultracompact biophotonics Marco Wende, Kathrin Doth, Florian Rothermel, Oindrila Ghosh, Claudia Imiolczyk, Theresa Kühn, Anton Hellstern, Pavel Ruchka, Harald Giessen, Michael Heymann, Alois Herkommer, Jiawen Li, Andrea Toulouse
11.15am	All-to-all fast two-qubit gates for trapped ion processors Isabelle Savill-Brown, Joseph J. Hope, Alexander K. Ratcliffe, Varun D. Vaidya, Haonan Liu, Simon Haine, C. Ricardo Viteri, Zain Mehdi	MoA3	Multi-layer coated 3D printed microlens for high-sensitivity endoscopic optical coherence tomography Claudia Imiolczyk, Philipp Flad, Robert McLaughlin, Harald Giessen, Jiawen Li
11.30am	Antisymmetry-based dimensionality certification using Hong-Ou-Mandel interference Jayden Webster, Florian Kanitschar, Simon White, Emanuele Polino, Farzad Ghafari, Marcus Huber, Nora Tischler	MoA4	A story of force and light: Development of a multimodal Raman and PS-OCT mechanical testing platform for cartilage characterisation Darven Murali Tharan, Cushla McGoverin, Marco Bonesi, Daniel Everett, Sue McGlashan, Ashvin Thambyah, Frédérique Vanholsbeeck
11.45am	Optical-microwave quantum state transduction beyond the ideal regime James Bainbridge, Michael Steel, Mikolaj Schmidt	MoA5	Rotational optical tweezers for microrheometry of nonequilibrium systems Mark Watson, Alexander Stilgoe, Halina Rubinsztein-Dunlop
12noon	Lunch		
12.30pm	Student lunch panel: Engaging with societies Satoshi Kawata, David Lancaster, Cather Simpson Chaired by Carlie Watt, University of Auckland, and Jacob Charvetto, The University of Adelaide Case room 3	MoC	Poster Session A PA-01 to -35 (unattended) OGGB Level 0 Foyer
	Optical materials and sensing OGGB 3 Chair: Claude Aguergaray, University of Auckland		Terahertz and RF photonics OGGB 4 Chair: Norman Lippok, Harvard Medical School & University
1.30pm	INVITED Why and how plasmonics has been integrated with Raman microscopy Satoshi Kawata (2022 Optica President)	MoC1	INVITED Merger of metamaterials with MEMS towards tunable spectral filtering of infrared and terahertz radiation Mariusz Martyniuk
2.00pm	Bottom-up InAsP single quantum dots in InP optical cavities for single photon sources Xiaoying Huang, Jake Horder, Wei Wen Wong, Igor Aharonovich, Naiyin Wang, Chennupati Jagadish, Hark Hoe Tan	MoC2	Multichannel terahertz-to-optical upconversion in a disc resonator Mallika Suresh, Florian Sedlmeir, Dominik Vogt, Gabriel Santamaria-Botello, Dmitry Strekalov, Harald Schwefel
2.15pm	3D microprinting of lanthanide-doped polymers on optical fibers: A platform for multiplexed sensing Stephen Warren-Smith, Shaghayegh Baghapour, Valese Aslani, Wenqi Zhang, Esmat Ebadati, Sally Plush, Alois Herkommer, Andrea Toulouse, Shahraam Afshar V.	MoC3	Low-noise optical frequency doubling for stepped-frequency radar Ziqian Zhang, Ryan Russell, Choon Kong Lai, Benjamin J. Eggleton
2.30pm	Bed exit event prediction using multimode optical fiber speckle pattern analysis Md Nazmul Islam Sarkar, Linh Nguyen, Adam D. Kilpatrick, David G. Lancaster, Stephen Warren-Smith	MoC4	Widely tunable dual-comb laser ranging via temporal Talbot effect Milad Elisha, Ziqian Zhang, Benjamin J. Eggleton
2.45pm	Fringe analysis for pressure sensing on microfluidic devices Luke H. Broadley, Adam Hawke, Crispin Szydzik, Adam F. Chrimes, Peter Thurgood, Arnan Mitchell	MoC5	Mapping the spatial profile of terahertz modes in a silicon resonator Anna Petersen, Pablo Paulsen, Florian Sedlmeir, Nicholas Lambert, Harald Schwefel, Mallika Suresh



Click the paper code to view the abstract.

3.00pm	Afternoon tea	
	Optoacoustics and optomechanics OGGB 3 - Chair: Moritz Merklein, The University of Sydney MoE	Frequency comb 1 OGGB 4 - Chair: Bill Corcoran, Monash University MoF
3.30pm	Enhanced optomechanical cooling in Brillouin waveguides using squeezed light <u>Adem Ozer</u> , Michael Steel, Mikolaj Schmidt MoE1	Heterogeneously integrated LNoI-As₂S₃ for Brillouin microwave photonics <u>Choon Kong Lai</u> , Moritz Merklein, Cong Tinh Bui, Duk-Yong Choi, Mei Xian Low, Thach G. Nguyen, Guanghui Ren, Stephen Madden, Arnan Mitchell, Alvaro Casas-Bedoya, Benjamin J. Eggleton MoF1
3.45pm	Effects of Mie resonances on optical forces and torques Ivan Toftul, Libang Mao, Konstantin Bliokh, Mihail Petrov, Romain Quidant, Sergey Kruk, Yuri Kivshar MoE2	Flexible soliton frequency combs in fibre resonators mediated by Raman scattering <u>Jordan J. Wise</u> , Zongda Li, Yiqing Xu, Miro Erkintalo, Stéphane Coen, Stuart G. Murdoch MoF2
4.00pm	Resonantly enhanced rotational damping in stable laser-driven lightsails Jadon Lin, Liam van Ravenstein, C. Martijn de Sterke, Michael Wheatland, Alex Song, <u>Boris Kuhlmei</u> MoE3	Towards a self-referenced chip comb laser <u>David G. Lancaster</u> , Dale Otten, Wenqi Zhang MoF3
4.15pm	Modal properties of elastic waves in scale invariant structures <u>Michael Steel</u> , Roumani Alabd, Christopher Poulton MoE4	Temporal cavity soliton generation in a Kerr fibre ring resonator with external Raman pumping Yiqing Xu, Stéphane Coen, Miro Erkintalo, Stuart G. Murdoch MoF4



Auckland Uniservices Ltd Industry Forum Warwick Bowen, The University of Queensland OGGB 4	
4.30pm	Welcome and introduction Catherine Qualtrough, Auckland UniServices Ltd
4.45pm	HOT TOPIC 1 Commercialising measurement tech: From research to scale up Professor Daniel Shaddock, CEO, Liquid Instruments
5.00pm	HOT TOPIC 2 The scientist in the boardroom Professor Cathie Simpson, CSO Engender Technologies & Orbis Diagnostics
5.15pm	HOT TOPIC 3 Inertial sensing with atoms Professor Dana Anderson, CSO, Inflection
5.30pm	PANEL DISCUSSION Accelerating quantum and photonic innovation in Australasia Chair: Professor John Harvey, CEO Southern Photonics Panellists: Dr Geoff Pryde, CTD, PsiQuantum Professor Satoshi Kawata, Osaka University, Nanophoton & 2022 Optica President Professor Cathie Simpson, CSO Engender Technologies & Orbis Diagnostics Professor Daniel Shaddock, CEO, Liquid Instruments Professor Dana Anderson, CSO, Inflection .
6.30pm	Networking - OGGB Level 0 Foyer



Tuesday 9 December		
8.00am	Registration	
9.00am	COMBS PLENARY , chaired by Prof. Arnan Mitchell, COMBS Director Optical frequency combs and quantum metrology Scott Diddams, University of Colorado, USA Room 260-098	Plenary 2
9.45am	Morning tea	
	Frequency comb 2 TuA OGGB 3 - Chair: Nicholas Lambert, University of Otago	Astrophotonics TuB OGGB 4 - Chair: Sergio Leon-Saval, The University of Sydney
10.15am	INVITED Fine-tuning frequency comb line spacing with symmetrybroken faticons Lewis Hill, Erwan Lucas, Alekhya Ghosh, Juan Diego Mazo Vásquez, Julius T. Gohsrich, Arghadeep Pal, Haochen Yan, Pascal Del'Haye, Gian-Luca Oppo, Stéphane Coen, Flore Kunst, Julien Fatome TuA1	INVITED 2025 ANZOS Award by John Love Award recipient TuB1
10.45am	High-speed and reconfigurable differential equation solvers based on optical microcombs Qi Zou, Yang Li, Yang Sun, Jiayang Wu, Guanghui Ren, Thach G. Nguyen, Xingyuan Xu, Bill Corcoran, Sai T. Chu, Brent E. Little, Roberto Morandotti, Arnan Mitchell, David J. Moss TuA2	Free space optical communications in New Zealand Nicholas Rattenbury, Joseph Ashby, John Cater TuB2
11.00am	SNR gains using comb distillation in WDM optical communications with microcombs Jorge Acosta, Chawaphon Prayoonpong, Bill Corcoran TuA3	MARVEL: A new facility for precision radial-velocity science Christian Schwab, Jacob Pember, Gert Raskin, Julien Storm, Jesus Perez Padilla, Joris De Ridder, Julian Stürmer, Bart Vandenbussche, Hans van Winckel TuB3
11.15am	Pure high-order dispersion microcombs Carlo Silvestri, Y. Long Qiang, Krupamaya Panda, Justin Widjaja, Stéphane Coen, C. Martijn de Sterke, Antoine F. J. Runge TuA4	Gravitational wave detectors: the world's largest quantum sensors Robert Ward, Bram Slagmolen, Terry McRae, Sheon Chua, Jiayi Qin, David McClelland TuB4
11.30am	Brillouin-Kerr phase locking in Bragg grating microresonators Ryan Russell, Choon Kong Lai, Cong Tinh Bui, Alvaro Casas-Bedoya, Ziqian Zhang, Duk-Yong Choi, Stephen Madden, Benjamin J. Eggleton, Moritz Merklein TuA5	The Pyxis interferometer inter-spacecraft metrology system Anika Chan, Michael Ireland, Chathura Bandutunga TuB5
11.45am	Perfect quartic dispersion soliton crystals in optical Kerr cavities TuA6 Krupamaya Panda, Carlo Silvestri, Christelle Monat, Christian Grillet, C. Martijn de Sterke, Antoine F. J. Runge	Ultrafast laser inscribed low loss Vis-NIR waveguides for an integrated optic beam combiner for the FIRST at the SUBARU telescope TuB6 Sebin Sebastian Xavier, Simon Gross, Guillermo Martin
12noon	Lunch	
12.30pm	ANZOS Annual General Meeting Case room 3	Poster Session A PA-01 to -35 (attended) OGGB Level 0 Foyer
	Metaoptics and nanophotonics TuC OGGB 3 - Chair: Ann Roberts, The University of Melbourne	Spectroscopy and biomedical imaging 1 TuD OGGB 4 - Chair: Sarah Fraser-Miller, Flinders University
1.30pm	INVITED Phase change materials for reconfigurable metasurfaces Madhu Bhaskaran TuC1	INVITED Differentiation of skin cancers, benign skin lesions and inflammatory dermatoses using portable Raman spectroscopy Michel Nieuwoudt, Paul Jarrett, Michelle Locke, Hannah Matthews, Hannah Sheridan, Marco Bonesi, Claude Agueraray, M. Cather Simpson TuD1
2.00pm	Molecular optomechanics with atomic antennas Mikolaj Schmidt, Alexander High, Michael Steel TuC2	A non-invasive Raman-based strategy for methanol quantification in bottled spirits Ané Kritzing, George O. Dwapanyin, Ralf Mouthaan, Graham D. Bruce, Kishan Dholakia TuD2
2.15pm	High-index plasmonic metamaterials for mid-infrared upconversion Caleb Todd, Nicolas Spiesshofer, Zoltan Sztranyovszky, Rakesh Arul, Angela Demetriadou, Jeremy Baumberg TuC3	Developing ensemble models for real-time, in-vivo, diagnosis of prostate cancer using Raman spectroscopic probes Max Dooley, Claude Agueraray TuD3
2.30pm	Harnessing plasmonic nanostructures for selective light-driven CO₂ reduction Anjalie Edirisooriya, Zelio Fusco, Ning Lyu, Christin David, Fiona Beck TuC4	Speckle spectroscopy of rubidium with radio-frequency scale resolution Gabriel Britto Monteiro, Christopher Perrella, Sarah Scholten, Morgan Facchin, Andre Luiten, Graham D. Bruce, Kishan Dholakia TuD4
2.45pm	Optimization of laser induced periodic surface structures for surface enhanced Raman spectroscopy of extracellular vesicles Simon Barter, Neil Broderick, Francesco Merola TuC5	Molecular characterisation of brain tumours for surgical guidance Samuel Cutfield, Clinton Turner, Jason Correia, Michel Nieuwoudt, Michael Dragunov, Claude Agueraray TuD5



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3.00pm	Afternoon tea	
	Prof. John D. Harvey special session OGGB 3 Chaired by Stéphane Coen, University of Auckland	Laser physics 1 OGGB 4 Chaired by Antoine Runge, The University of Sydney TuF
3.30pm	Celebrating the career and 80th birthday of Prof. John D. Harvey, a pioneer of optics and photonics in New Zealand This will be followed by a RECEPTION OGGB Level 0 Foyer	INVITED Two for the price of one: How dual-wavelength pumping transformed mid-IR fibre lasers at 3.5 μm — A decade in review and future outlook <u>Ori Henderson-Sapir</u> , David Ottaway TuF1
4.00pm	Presentations by <u>Stéphane Coen</u> <u>Dick Bellamy</u> <u>Frédérique Vanholsbeeck</u> <u>David Hirst</u> <u>Ben Eggleton</u> (video) <u>Cather Simpson</u> and a few others	Developing scalable photonics outreach kits for ANZ student chapters <u>Jacob Charvetto</u> , Admir Bajraktarevic, Zane Peterkovic, Emi Hughes TuF2
4.15pm		Modelling of high power, highly multimode, Yb-doped fibre amplifiers <u>Darcy Smith</u> , Kabish Wisal, Stephen Warren-Smith, Linh Nguyen, Ori Henderson-Sapir, Hui Cao, David Ottaway, Douglas Stone TuF3
4.30pm	Sponsored by the University of Auckland's Physics Department	Toward stable visible silica fiber lasers: Progress on power scaling and photodarkening mitigation <u>Jinho Lee</u> , Ian Ososkov, Martin Buckthorpe, Stuart Jackson TuF4
4.45pm		Recent progress in the ultranarrow linewidth multi-Watt diamond Raman lasers in the visible <u>Osama Terra</u> , Adam Sharp, Richard P. Mildren, Tiago Ortega, Jipeng Lin TuF5
5.00pm		Lifetime-resolved pump-probe spectroscopy based on fluorescence intensity <u>Clement Chan</u> , David Ottaway, Ori Henderson-Sapir, Tom de Prinse, Nigel Spooner TuF6
5.15pm		Toward mid-infrared lasers in fluoride glasses with positive index waveguides <u>Ori Henderson-Sapir</u> , Toney T. Fernandez, David G. Lancaster, David Ottaway TuF7
5.30pm	Reception OGGB Level 0 Foyer	



Waipapa
Taumata Rau
University
of Auckland

MONDAY-TUESDAY: POSTER SESSION A

POSTERS SHOULD BE DISPLAYED OVER MONDAY & TUESDAY LUNCH BREAKS, AND ATTENDED BY THE PRESENTER(S) ON THE TUESDAY LUNCH BREAK.

PA-01

An in-silico method for optimising a sample first approach to diffuse Raman spectroscopy for monitoring envenoming research in small animal models — a methodology

Max Dooley, Amy Marriott

PA-02

Quantification of haemodynamic parameters in benchtop phantoms with photoacoustic imaging

Caitlin Smith, Guillaume Renaud, Kasper van Wijk, Jami Shepherd

PA-03

Sensing bacterial biofilms with optical tweezers

Craig Steed, Julia Robertson, Simon Swift, Frédérique Vanholsbeeck, Cushla McGoverin

PA-04

Optically addressable spin defects in cubic boron nitride

Josiah Hsi, Islay Robertson, Abhijit Biswas, Alexander Healey, David Broadway, Jean-Philippe Tetienne

PA-05

Silence of the laser: Beating thermal noise limits with higher order modes

Namisha Chhabra, Andrew Wade, Kirk McKenzie

PA-06

In-situ optical method for pH sensing towards understanding nutrient availability in soil

Esmat Ebadati, Stephen Warren-Smith, Enzo Lombi, Sam Rudd, Drew Evans

PA-07

Low-frequency spectroscopy for the characterisation of multi-substituted apatites

Cameron A. Isaacs, Claire E. Lenehan, Sara J. Fraser-Miller

PA-08

A simulation-based inference framework for robust quantitative spectroscopy in complex media

Gabriel Oyarzo Ojeda, Ann Roberts

PA-09

Wavelength division multiplexing system using optical frequency comb light source

Wen Shing Tsai, Zi Xian Yang

PA-10

2 μm fiber laser frequency noise measurements, reduction and actuation for third-generation silicon gravitational-wave detectors

Lucas Kemperman, Georgia Bolingbroke, David Ottaway, Peter Veitch

PA-11

Broadening 20 GHz electro-optic frequency combs for precision metrology

Van Thuy Hoang, Andreas Boes

PA-12

Microcomb-based reconfigurable microwave photonic filters with ultrasteep roll-off

Qi Zou, Yang Li, Yang Sun, Jiayang Wu, Guanghui Ren, Thach G. Nguyen, Xingyuan Xu, Bill Corcoran, Sai T. Chu, Brent E. Little, Roberto Morandotti, Arnan Mitchell, David J. Moss

MONDAY-TUESDAY: POSTER SESSION A (cont)

POSTERS SHOULD BE DISPLAYED OVER MONDAY & TUESDAY LUNCH BREAKS,
AND ATTENDED BY THE PRESENTER(S) ON THE TUESDAY LUNCH BREAK.

PA-13

Silicon photonic waveguide polarizers with 2D reduced graphene oxide films

Junkai Hu, Jiayang Wu, Di Jin, Wenbo Liu, Yuning Zhang, Linnan Jia, Yijun Wang, Duan Huang, Baohua Jia, David J. Moss

PA-14

Performance optimization of 2D-material-based optical polarizers through machine learning

Di Jin, Rong Wang, Jiayang Wu, Junkai Hu, Baohua Jia, Irfan H. Abidi, Sumeet Walia, Duan Huang, David J. Moss

PA-15

Experimental validation of fabrication tolerance effects in a 12-channel silicon arrayed waveguide grating for optical communication systems

Leila Vatandoust, Jae Hyeon Kim, Md Munirul Islam Tusher, Shashank Gupta Kumar, Hyung-Myung Moon, Sangyoon Han, Moritz Merklein, Niels Quack

PA-16

Fabrication strategies for reducing propagation losses in silicon nitride waveguides on LNOI

Mei Xian Low, Aditya Dubey, Arnan Mitchell, Guanghui Ren

PA-17

Soft X-ray Ne-like Argon lasers excited by low-voltage capillary discharges

Sergei Kukhlevsky, Matyas Kiss

PA-18

MoO₃-based metasurfaces for enhanced sensing in the mid-infrared

Roberto Macaluso, Martina Mercurio, Vito Mocella, Karen Caicedo, Vincenzo Aglieri, Andrea Toma, Dominique Persano Adorno, Maria Cristina Larciprete

PA-19

Plasmonic gold nano-dendrites for efficient CO₂ reduction: Tailored architectures and enhanced multi-electron pathways

Anjalie Edirisooriya, Ning Lyu, Fiona Beck, Zelio Fusco

PA-21

Investigating the parameters influencing wavefront shaping for focusing light at the output of a multimode fibre

Jassimar Singh, Stephen Warren-Smith, Linh Nguyen, Ori Henderson-Sapir, David Ottaway

PA-23

Hilbert nonlinear Schrödinger solitons: Properties and related experiments

Van Thuy Hoang, Milo Langker, Carlo Silvestri, Y. Long Qiang, Justin Widjaja, Antoine F. J. Runge, C. Martijn de Sterke

PA-24

New capabilities of a novel analytic method for finding soliton solutions

Long Qiang, Neil Broderick, Pieter Rofelsen, Ofri Adiv, C. Martijn de Sterke

PA-25

Brillouin laser cascade inhibition in Bragg grating microresonators

Ryan Russell, Moritz Merklein, Choon Kong Lai, Cong Tinh Bui, Alvaro Casas-Bedoya, Duk-Yong Choi, Stephen Madden, Benjamin J. Eggleton

PA-27

Optimising flow conditions to suppress bubble formation in ZBLAN glass fibre preform fabrication

Gete Li, Heike Ebendorff-Heidepriem, Difan Tang, Ka Wu, Lei Chen

PA-28

Laser processing of materials for enhanced optical properties: From surface topography to water harvesting

P. Pou-Álvarez, A. Mongruel, M. Fernández-Arias, A. Riveiro, D. Beysens, J. Pou

PA-31

Coincidence post-selection for absolute dispersion cancelation in quantum optical coherence tomography (Q-OCT)

Crislane de Brito, Piotr Kolenderski, Sylwia Kolenderska

PA-33

Three-photon-entangled quantum optical coherence tomography (Q-OCT): Theoretical formulation and classical mimicking of its benefits

Daniel Barbosa, Sylwia Kolenderska

PA-34

Fast and low-loss all-optical phase modulation in warm rubidium vapour

William O. C. Davis, Paul Burdekin, Tabijah Wasawo, Sarah E. Thomas, Peter J. Mosley, Joshua Nunn, Cameron McGarry

PA-35

Engineering tunnel-coupled tweezer trap potentials for quantum microscopy using a digital micromirror device

Paul Catterson, James Howel, Gabin Chateau, Lucile Sanchez, Lennart Koehn, Christopher Parsonage, Stefan Kuhr, Arthur La Rooij



Wednesday 10 December		
8.00am	Registration	
9.00am	PLENARY , chaired by Frédérique Vanholsbeeck, Te Whai Ao – Dodd Walls Centre Director Teaching a material new tricks: Reconfigurable 2nd order nonlinearities on chip <u>Camille-Sophie Brès</u> , École polytechnique fédérale de Lausanne, Switzerland Room 260-098 Plenary 3	
9.45am	Morning tea	
	Microscopy and sensing WeA OGGB 3 Chair: Irina Kabakova, University of Technology Sydney	Nonlinear and quantum photonics WeB OGGB 4 Chair: Lewis Hill, Max Planck Institute for the Science of Light
10.15am	INVITED An entrepreneurial academic's tale ... <u>M. Cather Simpson</u> , SPIE President Elect WeA1	INVITED Building and using a utility-scale photonic quantum computer <u>Geoff Pryde</u> WeB1
10.45am	Optical frequency comb induced stimulated Brillouin microscopy <u>Aritra Paul</u> , Isa Ahmadalidokht, Jaymes Gourlas, Hadi Mahmodi, Irina Kabakova WeA2	Generalized solitons governed by fractional derivatives <u>Van Thuy Hoang</u> , Y. Long Qiang, Tristram J. Alexander, Antoine F. J. Runge, C. Martijn de Sterke WeB2
11.00am	Single particle tracking in live zebrafish unveils dynamics of nanoparticle extravasation in real-time <u>Yiqing Lu</u> WeA3	Observing backward stimulated Brillouin scattering in suspended Z-cut thin-film lithium niobate waveguides <u>Lisa-Sophie Haerteis</u> , Yan Gao, Aditya Dubey, Mikolaj Schmidt, Peter Thurgood, Guanghui Ren, Jochen Schroeder, Arnan Mitchell, Michael Steel, Andreas Boes WeB3
11.15am	Super-resolved imaging of live cell nuclear architecture by histone FRET <u>Elizabeth Hinde</u> , Jieqiong Lou, Blake Bishop, Alex Hopper WeA4	Passive fibre resonator for quartic dispersion Kerr soliton formation <u>Wenhao Liu</u> , Carlo Silvestri, Daniel Glass, Boris Kuhlmeier, C. Martijn de Sterke, Antoine F. J. Runge WeB4
11.30am	Training strategies for deep-learning-based refinement of optical coherence tomography data <u>Krzysztof Maliszewski</u> , Varvara Vetrova, Sylwia Kolenderska WeA5	All-optical synchronization of breather solitons in a Kerr microresonator <u>Wang Liao</u> , Stuart G. Murdoch, Stéphane Coen, Gregory Moille, Kartik Srinivasan, Miro Erkintalo WeB5
11.45am	Measuring mechanical responses of crustacean superficial hair to acoustic stimuli using optical coherence tomography <u>Tillmann Spellague</u> , Jami Shepherd, Craig Radford, Frédérique Vanholsbeeck WeA6	Nonlinear tuning of Brillouin-based memory efficiency <u>Elijah Cruz</u> , Christopher Poulton, Alexander Solntsev, Choon Kong Lai, Michael Steel, Benjamin J. Eggleton, Moritz Merklein WeB6
12noon	Lunch	
12.30pm	Poster Session B PB-01 to -35 (attended) OGGB Level 0 Foyer	
	Spectroscopy and biomedical imaging 2 WeC OGGB 3 - Chair: Elizabeth Hinde, The University of Melbourne	Quantum and atomic optics WeD OGGB 4 - Chair: Scott Parkins, University of Auckland
1.30pm	INVITED Scalable lithium niobate integrated photonics for digitally informed coherent imaging <u>Norman Lippok</u> , Hana Warner, Georgios Kyriazidis, Keith Powell, Xinrui Zhu, Jeffrey Holzgrafe, Jingchao Fang, John Davis, Yunxiang Song, Yaowen Hu, Gage Hills, Marko Loncar, Benjamin Vakoc WeC1	INVITED Harnessing high-dimensional quantum information encoded in the arrival time of photons <u>Simon White</u> , Emanuele Polino, Farzad Ghafari, Dominick Joch, Luis Villegas-Aguilar, Lynden Shalm, Varun Verma, Marcus Huber WeD1
2.00pm	Model development for imaging single-fiber reflectance spectroscopy WeC2 <u>Robin van Zutphen</u> , Ton van Leeuwen, Xavier Attenu	Faster tomographic quantum imaging with Fourier-domain quantum optical coherence tomography (Q-OCT) WeD2 <u>Sylwia Kolenderska</u> , Crislane de Brito, Piotr Kolenderski
2.15pm	Non-equilibrium measurements of active matter systems using rotational optical tweezers <u>Patrick Grant</u> , Mark Watson, Timo Nieminen, Alexander Stilgoe, Halina Rubinsztein-Dunlop WeC3	Advances in compact two-colour rubidium optical clock technology <u>Alexandros Kolovinos</u> , Clayton Locke, Sebastian Ng, Jordan Scarabel, Sarah Scholten, Nicolas Bourbeau Hébert, Andre Luiten WeD3
2.30pm	Optical palpation: An emerging imaging technique for cancer detection <u>Qi Fang</u> , Brendan Kennedy WeC4	Cooling quantum gases with feedback control: Theory and experiment <u>Zain Mehdi</u> , Matthew Goh, Ryan Thomas, Matthew Blacker, Jordan McMahon, Simon Haine, Stuart Szigeti WeD4
2.45pm	Ballistic and snake photon imaging (BSPI) in light scattering media <u>Alexandre Douplik</u> , Fiona Zerai, Kiana Daliri, Aditya Pandya WeC5	Narrow linewidth integrated photonic laser frequency stabilized to a two-photon optical atomic clock transition in ⁸⁷Rb <u>William Morrow</u> WeD5
3.00pm	Afternoon tea	



Click the paper code to view the abstract.

	Topological photonics and optical computing OGGB 3 Chair: Haoran Ren, Monash University WeE	Metamaterial and metaoptics OGGB 4 Chair: Rocio Morales, Australian National University WeF
3.30pm	INVITED Probabilistic photonic computing in symmetry-broken Kerr resonators Liam Quinn, Yiqing Xu, Kane Hill, Julien Fatome, Stuart G. Murdoch, Miro Erkintalo, Stéphane Coen WeE1	INVITED Parametric amplification and frequency conversion by metasurfaces Ilya Shadrivov WeF1
4.00pm	Emergent momentum-space topological pseudospin defects in non-Hermitian systems Yow-Ming Hu, Elena Ostrovskaya, Alexander Yakimenko, Eliezer Estrecho WeE2	Neural network topology optimisation of computational metasurfaces Lincoln Clark, Ann Roberts, Lukas Wesemann WeF2
4.15pm	Non-Hermitian control of magnon-polaritons Nicholas Lambert, Alex Schumer, Jevon Longdell, Stefan Rotter, Harald Schwefel WeE3	Maximal optical chirality originated from the mode coupling Brijesh Kumar, Ivan Toftul, Anshuman Kumar, Maxim Gorkunov, Yuri Kivshar WeF3
4.30pm	Phase symmetry breaking in microresonators for all-optical computing Arghadeep Pal, Alekhyia Ghosh, Shuangyou Zhang, Lewis Hill, Toby Bi, Pascal Del'Haye WeE4	Edge enhancement imaging with a meta-waveguide Ramona Bedford, Chi Li, Stefan Maier, Haoran Ren WeF4
4.45pm	Numerical instabilities in nonlinear pulse propagation Uwe Bandelow, Shalva Amiranashvili WeE5	On-chip exciton wavelength sorting via inverse-designed photonic structures integrated with TMDC Anastasiia Zalogina, Chi Li, Ivan Zhigulin, Nathan Coste, Hossein Alijani, Otto Cranwell Schaeper, Hugo Charlton, Joseph Ward, Haoran Ren, Igor Aharonovich WeF5
5.00pm	Break	
6.30pm	Conference dinner Wharfside Bar & Eatery, 137 Quay Street Doors open at 6:30 PM	

WEDNESDAY – THURSDAY: POSTER SESSION B

POSTERS SHOULD BE DISPLAYED OVER WEDNESDAY & THURSDAY LUNCH BREAKS, AND ATTENDED BY THE PRESENTER(S) ON THE WEDNESDAY LUNCH BREAK.

PB-01

A pulsed laser system for demonstrating antimicrobial deep-UV light

Thomas de Prins, Harriet Cooling, Anoop Sunny, Adrian Abdo, Nigel Spooner, Katharina Richter

PB-02

Metasurface-enabled stereoscopic optical palpation for breast cancer detection

Haoyi Yu, Rhys Jones, Chi Li, Haoran Ren, Stefan Maier, Qi Fang, Brendan Kennedy

PB-03

Characterising haemoglobin analogues for photoacoustic oxygen saturation measurements

Maisie Russell, Caitlin Smith, Kasper van Wijk, Jami Shepherd

PB-05

A passive thermal isolation system for optical fiber frequency references

Jake Wilson, Safiya Badri, Sophie Muusse, Andrew Wade, Ya Zhang, Kirk McKenzie

PB-06

Enhanced magnetic field detection with PAA-coated ferric oxide in optical fiber sensors

Shahna Muhammad Haneef, Muhamed Shareef Kolathodi, Shen Chong

PB-07

Speckle Interrogation: Plasmonic biosensors for ovarian cancer

Crispin Szydzik, César Huertas, Jorge López, Aman Punse, Damien Raynal, Gabriel Britto Monteiro, Christopher Perrella, Kishan Dholakia, Arnan Mitchell

PB-08

Metal etalon mirror coatings for near-IR spectrometer calibration systems to enable exo-planet characterisation

Dane Zielinski-Nicolson, Christian Schwab, James Downes, David Coutts, Julian Stürmer, Glen Douglass, David Inglis

PB-10

Structural health monitoring of liquid hydrogen storage tanks with multi functional ultra long fiber Bragg grating sensors

Fatima Bibi, Shahna Muhammad Haneef, Bart Ludbrook

PB-11

Monitoring seismic velocity changes in urban environments using distributed acoustic sensing

Tianwei Sun, Meghan Miller, Voon Hui Lai

PB-12

Phase sensitive amplification of micro-combs with their residual pump

Chawaphon Prayoonpong, Andreas Boes, Xiaotian Zhu, Mengxi Tan, Caitlin E. Murray, Sai T. Chu, Brent E. Little, Roberto Morandotti, David J. Moss, Arnan Mitchell, Bill Corcoran

PB-13

Integrated photonic polarizers with 2D MoS₂ films

Junkai Hu, Jiayang Wu, Irfan H. Abidi, Di Jin, Yuning Zhang, Jianfeng Mao, Anchal Pandey, Yijun Wang, Sumeet Walia, David J. Moss

WEDNESDAY – THURSDAY: POSTER SESSION B (cont)

POSTERS SHOULD BE DISPLAYED OVER WEDNESDAY & THURSDAY LUNCH BREAKS, AND ATTENDED BY THE PRESENTER(S) ON THE WEDNESDAY LUNCH

PB-14

Enhanced self-phase modulation in silicon nitride waveguides integrated with 2D MoS₂ films

Shahaz S. Hameed, Di Jin, Aihao Zhao, Junkai Hu, Sebastien Cuffe, Christian Grillet, Yuning Zhang, Irfan H. Abidi, Jiayang Wu, Sumeet Walia, Christelle Monat, David J. Moss

PB-15

Large free-space grating coupler design, with subwavelength grating on thin-film lithium niobate platform

Sonya Palmer, Lantian Wei, Mei Xian Low, Guanghui Ren, Thach G. Nguyen, Arnan Mitchell

PB-16

Towards single-longitudinal mode monolithic diamond Raman lasers

William O. C. Davis, Osama Terra, Adam Sharp, Saurabh Bhardwaj, Richard P. Mildren

PB-18

Polaritonic properties of MoO₃ thin films deposited on different substrates for mid-IR photonic devices

Roberto Macaluso, Martina Mercurio, Maria Pia Casaletto, Dominique Persano Adorno, Maria Cristina Larciprete

PB-19

AC electrokinetic-assisted tweezer for enhanced nanoparticle trapping

Dayantha Lankanath Karunasena, Danthure Arachchige, Damian Nelson, Daniel Fan, Kenneth Crozier

PB-20

Symmetry breaking & asymmetries of soliton states in photonic molecules

Alekhy Ghosh, Arghadeep Pal, Lewis Hill, Haochen Yan, Gian-Luca Oppo, Pascal Del'Haye

PB-21

Integrated mid-infrared saturable absorber based on nonlinear multimode interference

Sebastian Alveteg, Gayathri Bharathan, Marc Sciamanna, Delphine Wolfersberger, Alex Fuerbach

PB-22

Tunable avoided crossings for dispersion engineering in whispering gallery mode resonators

Josh Christensen, Vincent Ng, Mallika Suresh, Florian Sedlmeir, Harald Schwefel

PB-23

Three-photon state engineering in coupled nonlinear waveguide arrays

Miguel Bacaoco, Alexandra Waters, Denis Ilin, Alexander Solntsev

PB-24

Infrared to visible image processing by a nonlinear LiNbO₃ metasurface using structured light

Laura Daniela Valencia Molina, Rocio Camacho Morales, Hristo Iliev, Lincoln Clark, Andrey A. Sukhorukov, Dragomir Neshev

PB-25

Brillouin dynamic grating in low-loss heterogeneous chalcogenide chip

Kristia Ningsih, Choon Kong Lai, Duk-Yong Choi, Stephen Madden, Benjamin J. Eggleton, Moritz Merklein

PB-26

Design of ultra efficient second-harmonic generation in modal phase-matched gallium phosphide on insulator waveguides

Pedro Sansoldo, Lisa-Sophie Haerteis, Glenn Solomon, Andreas Boes

PB-27

A bio-inspired approach for increasing the adhesive bond strength on carbon fibre reinforced polymer through femto-second laser processing

Jingyi Li, Jeffery Low, Neil Broderick

PB-28

Greatly boosted red photoluminescence emission in Ga₂O₃ : Eu³⁺/Ti⁴⁺ composite ultrawide bandgap semiconductors

Abbas Nasir

PB-29

Elastic properties of isotopically pure hexagonal boron nitride by Brillouin microspectroscopy

Madeline Hennessey, Hadi Mahmodi, Eli Janzen, Seth Eckels, Thomas Poirier, Trong Toan Tran, James H. Edgar, Alexander Solntsev, Irina Kabakova

PB-30

Three body spinor interactions via nanofibre cavity QED

Thomas Clarkson, Scott Parkins

PB-31

Driven low-spin systems for the generation of GKP-like optical states

Rory Robertson, Scott Parkins

PB-33

Feedback cooling and control of ultra-cold quantum gases

Kaiwen Zhu, Zain Mehdi, Joseph J. Hope, Simon Haine

PB-34

The simplest detection-loophole-free demonstration of quantum nonlocality with polarization-encoded photons

Nandana Thuranalloor Raveendranath, Travis Baker, Emanuele Polino, Marwan Haddara, Lynden Shalm, Varun Verma, Geoff Pryde, Sergei Slussarenko, Howard Wiseman, Nora Tischler

PB-35

Demonstrating the extreme memory advantage with stochastic quantum simulation

Brendan Wallis, Farzad Ghafari, Emanuele Polino, Nora Tischler, Sergei Slussarenko



Thursday 11 December

8.00am	Registration	
9.00am	2025 ANZOS Awards Session Room 260-098 Chaired by Martijn de Sterke, The University of Sydney 9:00-9:30 Geoff Opat Early Career Researcher Prize ThJ1 9:30-10:00 ANZOS Mid-Career Prize ThJ2 10:00-10:30 W.H. (Beattie) Steel Medal winner ThJ3	
10.30am	Morning tea	
	Fiber Optics and Communications ThA OGGB 3 - Chair: Jiawen Li, The University of Adelaide	Structured light ThB OGGB 4 Chair: Halina Rubinsztein-Dunlop, The University of Queensland
11.00am	Analysis of polyurethane as a material for drawing optical fibres ThA1 <u>Simon Fleming</u> , Justin Digweed, Alessio Stefani	Visible to extended shortwave infrared imaging with a black phosphorous/molybdenum disulfide single pixel camera ThB1 <u>Seyed Saleh Mousavi Khaleghi</u> , Jinyuan Chen, Sivacarendran Balendhran, Alexander Corletto, Shifan Wang, Huan Liu, James Bullock, Kenneth Crozier
11.15am	DPMZM-based atmospheric turbulence distortion emulator for FSO communication ThA2 <u>Yisong Xu</u> , Bill Corcoran	Programmable spatiotemporal OAM optical toroidal beams with completely tunable properties ThB2 <u>Andrew V. Komonen</u> , Nicolas K. Fontaine, Martin Plöschner, Marcos M. Morote, David T. Neilson, Joel Carpenter, Mickael Mounaix
11.30am	Microcomb noise distillation with a second microring ThA3 <u>Caitlin E. Murray</u> , Chawaphon Prayoonpong, Xiaotian Zhu, Yonghang Sun, Yisong Xu, Sai T. Chu, Brent E. Little, Roberto Morandotti, David J. Moss, Bill Corcoran	Rotation of a microscopic spiral phase plate by direct mode conversion of a Gaussian beam to a light field with orbital angular momentum ThB3 <u>Aman Punse</u> , Damien Raynal, Crispin Szydzik, Christopher Perrella, Ewan Wright, Arnan Mitchell, Kishan Dholakia
11.45am	Telecom band blackbody noise in optical fibres ThA4 Michael Hencz, Mark Baker, <u>Erik Streed</u>	Generating a helix polymorphic beam using a metasurface ThB4 <u>Maryam Setareh</u> , Yang Xu, Jose Rodrigo, Kenneth Crozier
12noon	Novel photonic lanterns with higher order radial mode suppression ThA5 <u>Jin Wei</u> , Sergio Leon-Saval, Christopher Betters, Barnaby Norris, Justin Vella, Andrew Ross-Adams	Simultaneous visible and mid-infrared single-pixel imaging using frequency-encoded light sources ThB5 <u>Jinyuan Chen</u> , Seyed Saleh Mousavi Khaleghi, Kenneth Crozier
12.15pm	Lunch	
12.30pm	Poster Session B PB-01 to -35 (unattended) OGGB Level 0 Foyer	
	Metamaterials ThC OGGB 3 Chair: Boris Kuhlmeier, The University of Sydney	Integrated photonics ThD OGGB 4 Chair: Andreas Boes, The University of Adelaide
1.30pm	INVITED ThC1 Light-tunable dielectric metasurfaces with dye-doped liquid crystals <u>Yana Izdebskaya</u> , Andrey Iljin, Oleg Kameshkov, Ilya Shadrivov	INVITED ThD1 Fully photonic-integrated low-noise microwave receiver frontends <u>Gabriel Santamaria-Botello</u>
2.00pm	Free-form dual-resonant metasurfaces for enhanced frequency mixing ThC2 Samantha Williams, Neuton Li, Tuomas Haggren, Hark Hoe Tan, Chennupati Jagadish, Andrey A. Sukhorukov, Dragomir Neshev, <u>Rocio Camacho Morales</u>	Meta-waveguide photodetectors for valley optoelectronics ThD2 <u>Chi Li</u> , Kaijian Xing, Wenhao Zhai, Luca Sortino, Andreas Tittl, Igor Aharonovich, Michael Fuhrer, Kenji Watanabe, Takashi Taniguchi, Qingdong Ou, Zhaogang Dong, Stefan Maier, Haoran Ren
2.15pm	High-harmonic generation from resonant metasurfaces ThC3 <u>Pavel Tonkaev</u> , Felix Richter, Ivan Toftul, Maria Antonietta Vincenti, Ivan Sinev, Michael Scalora, Hatice Altug, Yuri Kivshar	On-chip ultralow-loss resonator enabling precise LiDAR ThD3 <u>Osama Terra</u> , John Bowers, Hussein Kotb, Joel Guo, Warren Jin
2.30pm	Structured radiation generated with metaphotonics ThC4 <u>Yuri Kivshar</u>	Processing of aluminized fibre optic apertures for the LFAST fibre feed ThD4 <u>Glen Douglass</u> , Sonja O.T. Choi, Alex Stokes, Roger Angel, Joel Berkson, Dane Zielinski-Nicolson, Andrew J. Monson, Keita Maekawa, Christian Schwab, Chad F. Bender
2.45pm	Synthetic metasurfaces with enhanced functional density ThC5 Chi Li, Changxu Liu, Cade Peters, Haoyi Yu, Stefan Maier, Andrew Forbes, <u>Haoran Ren</u>	Inverse-designed compact photonic circuits on silicon nitride loaded lithium niobate ThD5 Xu Han, Hu Jiang, <u>Guanghui Ren</u> , Yonghui Tian, Arnan Mitchell, Haojie Xia
3.00pm	Closing ceremony - OGGB 4	

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